

Edge DVR Quick Guide

Advanced MPEG-4 DVR 4, 8 and 16 Channel Models

Scorpion Group Security - 01452 525397



First guide for the operation of M5000

>> Cautions for Power-Off

- Forced power-off or unplug while DVR is in its operation (Record/Playback) can cause fatal damages or abnormal operation to DVR. You are firmly requested to shutdown the system first in SYSTEM/Shutdown and then turn the power off. You are suggested to turn the power on again after 5 seconds.
- Forced power-off or unplug while external storage devices (USB memory stick, External HDD, etc.) are being used for back-up can cause fatal damages or abnormal operation to DVR. Keep the power on until data saving process is completed. Forced removal of those storage devices while they are in operation results in same fatal damages.
- Forced power-off or unplug during HDD Format can cause fatal damages or abnormal operation to DVR. Keep the power on until Format process is completed.

>> Installation/Add/Change/Move/Removal of HDD & CD-RW (DVD-RW)

- You are firmly requested to turn the power of DVR off prior to the installation/Add/Change/Move/Removal of HDD and CD-RW (DVD-RW). Otherwise it can cause fatal damages to those storage devices. For turning the power of DVR off, go to SETUP>SYSTEM>Shutdown to shutdown the system and then DVR will be automatically rebooted. If DVR doesn't process automatic reboot, unplug power cord for power off by force.
- **For Installing/Add/Change/Move:** 'HDD Format and Default' should be processed once you install/add/change Hard disk drive, regardless any cases of installing brand new one or second handed one, re-installing existing one, installing additional ones as a Primary Slave or Secondary Master, changing the location of pre-installed HDDs and so on. Otherwise DVR doesn't properly detect the HDD and it can cause abnormal system operation. 'HDD Format and Default' will be processed as below;
 - ① (Date/Time Setting) This is to set present Date and Time (SETUP>SYSTEM>Admin>Date/Time).
 - ② (Default Setting) This is to set all of setting values as same as to those of the factory defaulted. (SETUP>SYSTEM>Information>Status>Setup>Default).
 - ③ (HDD Format) Go to SETUP>SYSTEM>Admin>Storage>Format to format HDD. If you are using 2 x HDD or more, it's required for you to format every HDD of them respectively. DVR will be automatically rebooted after format is completed.
- **For Removal:** You are firmly requested to process Remove as soon as you remove the HDD. Go to SETUP>SYSTEM>Admin>Storage>Format. To complete removal process, click (↔) Removed mark displayed next to Format column of the HDD that is to be removed. DVR will be automatically rebooted after removal is completed.

>> New setting of Date/Time

- Once you set new Date/Time, this will be immediately applied to the Live screen. But this change doesn't work in the Record mode until you reboot DVR.
- You are firmly requested to reboot the system after new set of Date/Time is completed.
- Shutdown should always be processed in SETUP>SYSTEM>Shutdown before you reboot the system.

>> Cautions for Upgrade process

- You are not allowed to upgrade the system prior to installing HDD. Upgrade should be processed while HDD is in its regular operation.

>> How to use Mouse

- **Left button:** Supports as same functions as **Enter (↵)** key has.
- **Scroll button in the middle:** Supports as same functions as **Search** key has (displays Search Menu)
- **Right button:** Supports to display various 'Function Keys' (Refer to How to use mouse in the manual)

>> PLAY/PAUSE Key

- Every press of **PLAY/PAUSE** key alternately changes the playback mode by 'x1 playback' and 'PAUSE'. Screen will automatically mark ► and II respectively.
- If you want to change the playback modes by x1playback, REW, FF, BACKWARD or FORWARD, you are firmly requested to first pause the system by pressing **PLAY/PAUSE** key.
- If you want to back-up the images being play-back, you are firmly requested to first pause the system by pressing **PLAY/PAUSE** key.

>> Camera Title

The Camera Titles to be displayed during Record or Playback are set to CAM1~CAM16. But you are allowed to register new titles in 'SETUP>DEVICES>Camera/PTZ>Title' for your convenient application during setup process.

2. INSTALLATION

2.1 INSTALLATION OF HDD AND CD-RW (DVD-RW)

2.1.1 IDE ports

- This DVR provides 2 x IDE ports that are to be divided into Primary and Secondary respectively.
- Every IDE port will be connected with 2 IDE devices (HDD, CD-RW, DVD-RW) in a row, but each of the storage devices should be set as Master or Slave in accordance with following port setting plan
- Correct set of CD-RW (or DVD-RW) is **Slave in the Secondary port**.
- Please refer to following Port Setting Plan for the installation of HDD and CD-RW (DVD-RW).

	Storage		Primary IDE Port		Secondary IDE Port	
	HDD	CD-RW (DVD-RW)	Master	Slave	Master	Slave
4 / 8ch DVR	1	1pc	HDD	----	----	CD-RW (DVD-RW)
	2	1pc	HDD	HDD	----	CD-RW (DVD-RW)
	3	----	HDD	HDD	HDD	----
16ch DVR	1	1pc	HDD	----	----	CD-RW (DVD-RW)
	2	1pc	HDD	HDD	----	CD-RW (DVD-RW)
	3	1pc	HDD	HDD	HDD	CD-RW (DVD-RW)
	4	----	HDD	HDD	HDD	HDD

2.1.2 How to set Master / Slave

- You are required to use Jumper pins for setting Master or Slave in the HDD or CD-RW (or DVD-RW). Because every brand has its own specific ways of set, how to set will be described on the surface of each device. The setting pin for selecting Master / Slave locates at between IDE connector (40-pin) and Power connector (4-pin).

2.1.3 How to install HDD

- You are required to use the brackets and screws provided in the package for installing HDD.
- You are firmly requested to use only the cable kits provided (Data cable and Power cable). Otherwise HDD can be damaged.

(ATTENTION)

- You are firmly requested to turn the power of DVR off first prior to installing HDD. Otherwise it can cause fatal damages to HDD. For turning the power of DVR off, go to SETUP>SYSTEM>Shutdown to shutdown the system and then DVR will be automatically rebooted. If DVR doesn't process automatic reboot, unplug power cord for power-off by force. You are suggested to turn the power on again after 5 seconds.

(ATTENTION)

- You are firmly requested to turn the power of DVR off prior to the installation/Add/Change/Move/Removal of HDD and CD-RW (DVD-RW). Otherwise it can cause fatal damages to those storage devices. For turning the power of DVR off, go to SETUP>SYSTEM>Shutdown to shutdown the system and then DVR will be automatically rebooted. If DVR doesn't process automatic reboot, unplug power cord for power off by force.
- **For Installing/Add-up/Change:** 'HDD Format and Default' should be processed once you install/add/change Hard disk drive, regardless any cases of installing brand new one or second handed one, re-installing existing one, installing additional ones as a Primary Slave or Secondary Master, changing the location of pre-installed HDDs and so on. Otherwise DVR doesn't properly detect the HDD and it can cause abnormal system operation. 'HDD Format and Default' will be processed as below;
 - ① (Date/Time Setting) This is to set present Date and Time(SETUP>SYSTEM>Admin>Date/Time).
 - ② (Default Setting) This is to set all of setting values as same as to those of the factory defaulted. (SETUP>SYSTEM>Information>Status>Setup>Default).
 - ③ (HDD Format) Go to SETUP>SYSTEM>Admin>Storage>Format to format HDD. If you are using 2 x HDD or more, it's required for you to format every HDD of them respectively. DVR will be automatically rebooted after format is completed.
- **For Removal:** You are firmly requested to process Remove as soon as you remove the HDD. Go to SETUP>SYSTEM>Admin>Storage>Format. To complete removal process, click (←) Removed mark displayed next to Format column of the HDD that is to be removed. DVR will be automatically rebooted after removal is completed.

2.1.4 How to install CD-RW (or DVD-RW)

- You are required to use the brackets and screws provided in the package for installing CD-RW (or DVD-RW).
- You are firmly requested to use only the cable kits provided (Data cable and Power cable). Otherwise CD-RW (or DVD-RW) can be damaged.
- You are allowed to use only 1 x CD-RW (or DVD-RW). CD-RW (or DVD-RW) should always be set as **Slave in the Secondary ports**.

(ATTENTION)

You are firmly requested to turn the power of DVR off prior to installing HDD, CD-RW or DVD-RW. Otherwise it can cause fatal damages to those storage devices. For turning the power of DVR off, go to SETUP>SYSTEM>Shutdown to shutdown the system and then DVR will be automatically rebooted. If DVR doesn't process automatic reboot, unplug power cord for power off by force. You are suggested to turn the power on again after 5 seconds.

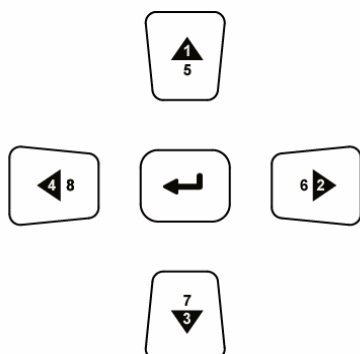
3. INPUT DEVICE and SCREEN ICONS

3.1 KEYS AND INDICATORS

Keys	PTZ key	Operation Mode	Setup Mode
▲, ▼, ◀, ▶		•Camera selection keys (For 4 / 8ch DVR) •Rotate Pan/Tilt to Up/Down/Left/Right in PTZ Mode	•Move cursor to Up/Down/Left/Right
↵		•Camera selection keys (For 8ch DVR)	•Enter into Sub-Menu •Select where cursor locates at
1 ~ 16		•Camera selection keys (For 16ch DVR)	
DISPLAY		•To select split screen mode	
SEQUENCE		•Channel sequence Mode on/off (For Main Monitor)	
SPOT		•Channel sequence Mode on/off (For SPOT Monitor)	
SEARCH		•Video Search Mode on/off	
ARCHIVE		•Live Screen: – Full Screen: Color Control Window is popped up – Split Screen: Alarm Out Control Window is popped up •Playback Screen: Archive the images into the external back-up storage devices	
FREEZE		•Screen Pause Mode on/off	
ZOOM		•Screen Zoom Mode on/off	
PIP		•PIP Mode on/off (Available only in Full Screen)	
EMERGENCY		•Emergency Record on/off	
EVENT		•Display of System Log on/off	
PTZ		•PTZ Control Mode on/off	
SETUP		•To enter into Main Menu	
REW		•Fast Rewind (Every press changes it to x16 or x32) •Zoom Out in PTZ Mode	
BACKWARD		•Playback each still image in backward direction •Zoom In in PTZ Mode	
PLAY/PAUSE		•Monitoring Mode: One-touch playback (for the video recorded during the latest 1 minute) •Playback Mode: x1 Playback/Pause •Focus Near in PTZ Mode	
AUDIO		•Audio on/off (Monitoring/Playback) •Audio channel selection: Hold pressing AUDIO key and select the channel •Focus Far in PTZ Mode	
FF		•Fast Forward (Every press changes it to x16 or x32) •Preset / Pan/Tilt Speed in PTZ Mode	
FORWARD		•Playback each still image in forward direction •Goto in PTZ Mode	
Power Indicator(Red)		•Light off: DVR off •Light on: DVR on	
HDD Indicator (Green)		•Light off: Stop Record •Blinking: Record/Playback is in process (HDD Access)	
Network Indicator (Yellow)		•Light off: Ethernet is disconnected •Blinking: Ethernet has been connected	

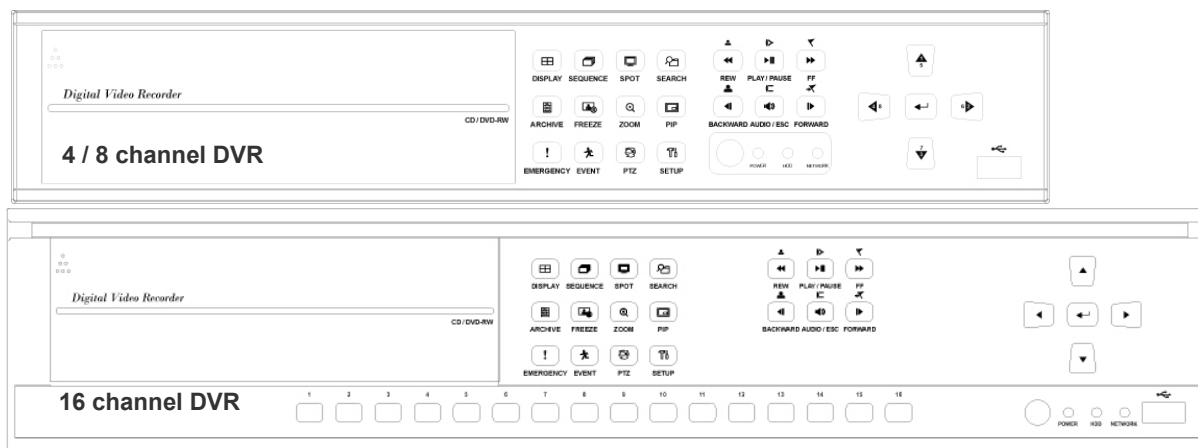
3.2 CAMERA SELECTION KEYS FOR 4 / 8CH DVR

- Refer to how to select camera channel for 4 / 8ch DVR as below.



- To select #1 camera: Use ▲ key
- To select #2 camera: Use ► key
- To select #3 camera: Use ▼ key
- To select #4 camera: Use ◀ key
- To select #5 camera: Press  key and use ▲ key
- To select #6 camera: Press  key and use ► key
- To select #7 camera: Press  key and use ▼ key
- To select #8 camera: Press  key and use ◀ key

3.3 FRONT PANEL



3.4 HOW TO USE REMOTE CONTROLLER

- Function buttons and their functionalities of Remote Controller are as same as the buttons on the Front Panel of DVR.
- Follow the instructions below when you are in use of multi DVR units.
 - Confirm System ID of the DVR (SYSTEM>Information>Status>System ID). You are allowed to select a number among 1~999.
 - Hold pressing ID button of Remote Controller and input a 3-digit System ID ('001' means ID#1) while you head Remote Controller toward the front Panel of DVR. Button number '10' is equivalent with '0'.

(Ex) System ID is 3: Hold pressing **ID** button and press the number buttons by **10>10>3** in sequence.

3.5 HOW TO USE MOUSE

- USB Mouse allows you a convenient control of the DVR.
- Left button supports as same function as **Enter** (↵) key has.
- Scroll button in the middle supports as same function as **Search** key has. Once you press this button, there appears Search Menu on the screen.
- Right button supports to display multi function keys described as below.

Keys	Functions	Keys	Functions
Display	Same as front panel key	Event	Same as front panel key
Sequence	Same as front panel key	Search	One-touch playback (same as PLAY/PAUSE key)
Spot	Same as front panel key	Setup	Same as front panel key
Zoom	Same as front panel key	Emergency	Same as front panel key
Freeze	Same as front panel key	Shutdown	Shutdown key (Same as SETUP>SYSTEM>Shutdown)
PIP	Same as front panel key	Cancel	Function key Menu off
PTZ	Same as front panel key		

3.6 SCREEN ICONS

Icon	Description	Icon	Description
	System is in Continuous Record Mode		System is in Audio recording Mode
	System is in Event Record Mode		CMS connected / Allows 4 different login at max.
	System keeps Recording		System is in Channel Sequence Mode
	PTZ registered / PTZ Mode		HDD is in Overwrite Mode

4. SETUP

4.2 SYSTEM

4.2.1 Information

Version

- After Status input is completed, click (←) Version to display following screen menu.



Version Upgrade

- You are allowed to upgrade the DVR by applying new software.
- Refer to how to upgrade as below.
 - Insert an USB memory stick that holds upgraded file in it to the USB port of DVR.
 - Click (←) Load. The software version that USB memory stick holds on will be displayed on the left of the screen.
 - Click (←) Start. Upgrade will be started.
 - DVR will be automatically re-booted after upgrade process is completed.

(ATTENTION)

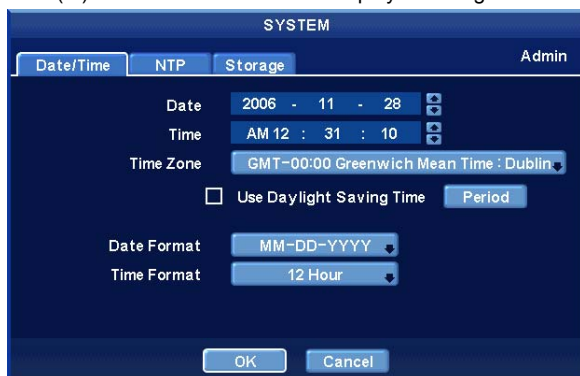
You are not allowed to upgrade the system prior to installing HDD. Upgrade should be processed while HDD is in its regular operation

(ATTENTION)

Forced power-off or removal of USB device while upgrade has been in process can cause fatal damages to DVR.

4.2.2 Admin

- Click (←)Admin in the SYSTEM to display following screen menu



Date / Time

Date

- This Menu is to set present Date.
- Refer to followings to adjust the Date and Time.
 - Click (←) Year, Month or Day where you want to adjust with. The clicked will be highlighted by square.
 - Adjust the figures by clicking (←) ▲, ▼ buttons.
 - Adjust Year, Month and Day in same manner.

Time

- This Menu is to set present Time. Adjust the Time in same manner of Date setting.

(ATTENTION)

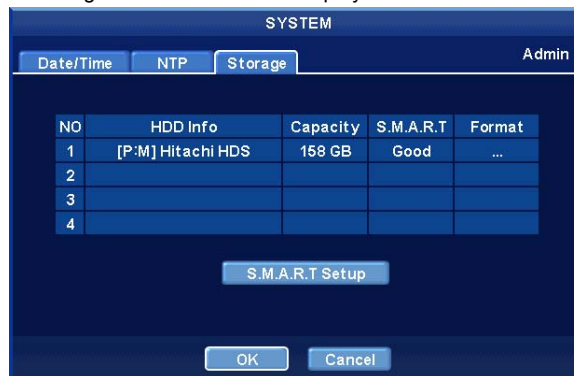
If the date/time newly adjusted is earlier time than the date of recorded data saved, the data left as those after new date/time can be erased

(ATTENTION)

Once you set new Date/Time, this will be immediately applied to the Live screen. But this change doesn't work in the Record mode until you reboot DVR. You are firmly requested to reboot the system after new set of Date/Time is completed. Shutdown should always be processed in SETUP>SYSTEM>Shutdown before you reboot the system.

Storage

- Click (←) Storage after your input for NTP is completed. Following screen menu will be displayed.



- This Menu is to set S.M.A.R.T.(Self-Monitoring Analysis and Reporting Technology) function that enables DVR to format HDD and automatically display the information about HDD. But CD-RW (DVD-RW) is not included in the SMART support.
- 4 x HDD at maximum can be identified as below.
 - 1: Primary IDE port / Master
 - 2: Primary IDE port / Slave
 - 3: Secondary IDE port / Master
 - 4: Secondary IDE port / Slave (Only for 16ch DVR)

Format

- You are firmly requested to format HDD for following cases.
 - When you have newly installed HDD.
 - When you added up new HDD.
 - When you have changed HDD by another one.
 - When you move HDD to another port.
 - When you remove HDD.
- Click (←) Add/Remove next to Format column and click (←) 'OK' to start Format.
- DVR will be automatically rebooted after format is completed. If you use 2 x HDD or more, DVR will be automatically rebooted after all of HDD being applied are completely formatted.
- Once the column is changed to '---' after Reboot processed, this means that Format has been successfully processed.

(ATTENTION)

Even you remove the HDDs having been installed, you are required to process Remove process. Remove process is as same as that of Format process.

4.2.6 Shutdown

- Shutdown is to safely turn off the power of DVR. Forced power off can cause unexpected malfunction on the system. You are firmly requested to turn the power off in the Shutdown mode.

(ATTENTION)

- Forced power-off can cause unexpected malfunction on the system. You are firmly requested to turn the power off in the Shutdown Mode

- Click (↵) Shutdown in SYSTEM>Shutdown to display a screen menu for confirming Shutdown. Click (↵) 'OK' to process Shut Down.
- In Shutdown mode, all of OSD will be disappeared.
- You are required to reboot the DVR after Shutdown is completed. Turn the power on after 5 seconds.

4.5 RECORD

- Click (↵) RECORD to display following screen menu



4.5.1 Settings

- Click(↵) Setting in the RECORD>Settings to display following screen menu



- There are 3 different record modes supported by this DVR that are described below.
 - Continuous:** Continuous Record
 - Event:** Event Record(Sensor, Motion)
 - Emergency:** Record starts only when you press **EMERGENCY** key

Continuous

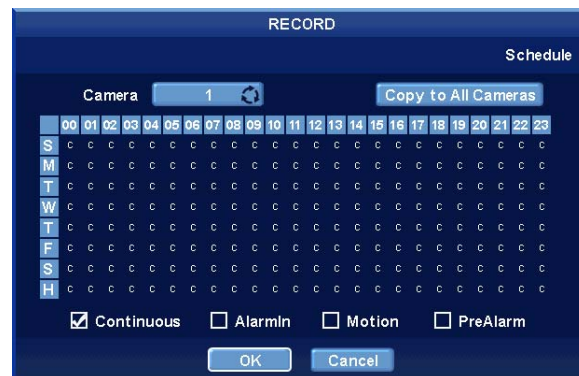
- This is the setup Menu for Continuous Record.
- There displays registered camera names in each Title column. You are not allowed to change the name in this mode.
- Once you click (↵) resolution per each camera in Resolution column, you can select required record resolution for every camera. Select a resolution among **704x480**, **704x240** and **352x240**.
- Once you click (↵) record speed per each camera in Record Speed column, you can select required record speed for every camera. Refer to maximum record speed per each channel described below. 352x240 in 4ch DVR is not applicable.

NTSC(PAL)	352x240	704x240	704x480
4ch DVR	----	120(100)	60(50)
8ch DVR	240(200)	120(100)	60(50)
16ch DVR	480(400)	240(200)	120(100)

- Once you click (↵) record quality per each camera in Record Quality column, you can select required record quality for each camera. Select a record quality among **Super**, **High** and **Std.**
- Click (↵) 'OK' after setup is completed.

4.5.2 Schedule

- Click (↵) Schedule in RECORD>Schedule to display following screen menu.



- This screen menu consists of 24 'Time Blocks' by every week days. Each block unit supports to set 1 hour respectively.
- Click (↵) Camera column and select #1 camera.
- Setup Record Mode in following sequence.
 - Click ☒ to select required record mode among the record mode listed (Continuous, Alarm, Motion and PreAlarm). Release ☒ from all record modes if you want to stop record
 - You can register record modes by selecting blocks, rows or columns, or by clicking (↵) all of check boxes (☐).
 - If you click (↵) a block, the block selected only will be registered.
 - If you click (↵) the columns (S~H), the column selected will be registered.
 - If you click (↵) the rows (00~23), the row selected will be registered.
 - If you click (↵) the block located at the top left and cross of column and row, all of the columns and rows will be registered.
- Repeat same setup process for camera 2~16. If you want to setup all of cameras as same setup as camera#1, click (↵) Copy to All Cameras.
- Following marks represent most of Record Mode supported.

C	Continuous
A	AlarmIn
A⁺	AlarmIn / Continuous
A⁺A	AlarmIn / PreAlarm
M	Motion
M⁺	Motion / Continuous
M⁺A	Motion / PreAlarm
M⁺A	Motion / AlarmIn
M⁺A⁺	Motion / AlarmIn / Continuous
M⁺A⁺A	Motion / AlarmIn / PreAlarm

- Click (↵) 'OK' after setup is completed.

(Note)

Holiday will be registered in another Menu.

4.5.3 Motion Detection

- Click (↔) Motion Detection in RECORD>Motion Detection to display following screen menu.



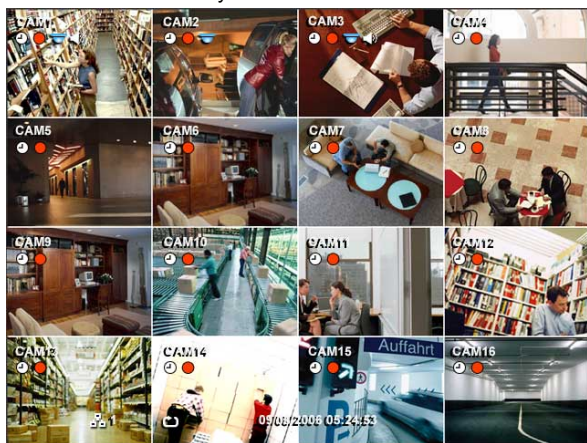
- This Menu is to set Motion Detection.
- Press **SETUP** key (or press Right button of Mouse) to display setup Menu.
- Each setup Menu supports following operation.
 - **Camera:** To select the camera for setup
 - **Sensitivity:** To select the sensitivity (Low, Normal, Sensitive)
 - **Reverse Vert:** To activate whole column blocks where cursor locates at
 - **Reverse Horz:** To activate whole row blocks where cursor locates at
 - **Select All:** To activate whole blocks
 - **Deselect All:** To inactivate whole blocks
 - **Save:** To save new setup and return to previous Menu
 - **Exit:** To go direct to previous Menu disregarding new setup
 - **Cancel:** Cancel Motion Menu
- Click (↔) 'OK' after setup is completed.

5. OPERATION

5.1 MONITORING

5.1.1 First Screen

- First screen defaulted to be displayed after power on will be a split screen as below and DVR starts both of Live and record functions as soon as system is booted.



- First screen shows Date/Time and following icons.

ICON	Description
	System is in Continuous Record Mode
	System is in Event Record Mode
	System keeps Recording
	PTZ has been set
	System is in Audio Recording Mode
	CMS is connected / Allows 4 different login at max.
	System is in Channel Sequence Mode
	HDD Overwrite Mode was selected

5.1.2 Screen

- System supports 4 different monitoring screens, such as Full screen, Split screen, Sequence screen and PIP screen.
 - Full screen:** Press #1 ~ #16 keys to display a Full screen per each camera selected.
 - Split screen:** Every press of **DISPLAY** key alternately displays 3 different split screens (4, 9, 16).
 - Sequence screen:** After you select a screen display among Full and Split screens in 4, 9 or 16, press **SEQUENCE** key to activate Sequence mode. 4ch DVR supports Full screen sequence, 8ch DVR supports Full and 4-split sequence and 16ch supports Full, 4-split and 8-split sequence. Press **SPOT** key if you want to monitor sequence screens on the Spot monitor.
 - PIP screen:** Once you press PIP key in a Full screen mode in a certain channel, this enables to display the images of next channel by PIP at right bottom of the screen.
- SPOT 모니터를 채널순환 방식으로 보려면 **SPOT** 키를 누르십시오.

5.1.3 Screen Zoom

- Press **ZOOM** key to magnify the screen by 4 times larger than present screen size.
- Press **Direction** keys to monitor other corners of magnified screen.
- Screen Zoom can be functioning only in Full screen Mode. This function will not be working in Split, Sequence screens and PIP mode.

5.1.4 Screen Freeze

- Press **FREEZE** key to pause present screen display.
- Screen Freeze can be functioning in Full screen and Split screens. But this function will not be working in Sequence screen mode and PIP mode.

5.1.5 PTZ Control

- Press **PTZ** key to control PTZ cameras connected to DVR. PTZ Control can be functioning only in Full screen Mode.



- Once you start PTZ Control Mode, PTZ icon will be appeared on the bottom of the screen.
- Function keys for PTZ Control are shown below.

Keys	Functions
▲, ▼, ◀, ▶	Up/Down/Left/Right
	Zoom out
	Zoom in
	Focus near
	Focus far
	Iris In
	Iris Out
	Save Preset and Adjust Control Speed
	Go to the Preset

- When you use a mouse for the control of PTZ, move cursor to the bottom of the screen near to Time display. Control keypad will be popped up as below.



5.1.6 System Log

- Press **EVENT** key to display System Log as below.

SYSTEM	
System Log	
Date/Time	Log
11/21/2006 17:02:51	Playback Exit
11/21/2006 17:02:18	Playback Enter
11/21/2006 17:02:12	Search Exit
11/21/2006 17:01:58	Search Enter
11/21/2006 17:01:47	Playback Exit
11/21/2006 16:21:45	Network Disconnected
11/21/2006 16:15:34	Playback Enter
11/21/2006 16:13:04	Setup Exit
1 / 7 (54)	
Close	

- Please refer to 'SETUP>SYSTEM>System Log' to be informed the sorts of Events to be listed up in System Log and how to delete the Events.

5.1.7 Key Lock

- Press **AUDIO>FF>FORWARD** keys in order to activate Key Lock function and display an  icon on the bottom of the screen.
- Press any key to pop up a Login Window. You are required to Input password to release Key Lock. If there's no password encoded, press **←key**.

5.1.8 Multi-functions of ARCHIVE Key

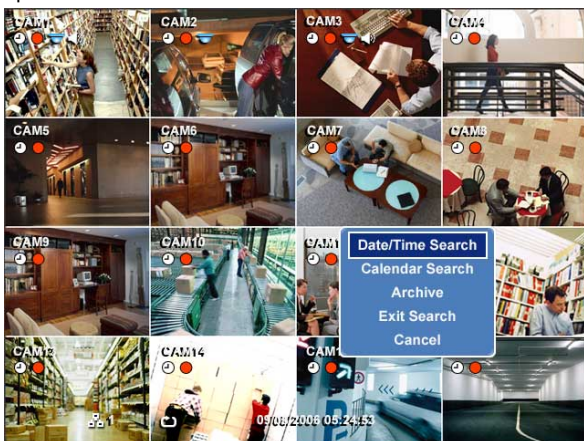
- ARCHIVE** key will be applicable for following operations in Live screen mode as well as to be used for Backup in Playback screen mode.
 - Full Screen Mode:** Color Control Menu will be popped up and you are allowed to control Brightness, Contrast and Saturation.
 - Split Screen Mode:** Alarm Out Control Menu will be popped up and you are allowed to select Alarm Out in the system.

5.1.9 Emergency Record

- Press **EMERGENCY** key to start emergency record regardless of previous record setup.
- Emergency record doesn't work in SETUP Mode.
- Press this key once more to stop Emergency Record.

5.2 SEARCH

- This is to search images prior to process playback for the recorded data.
- Press **SEARCH** key or press scroll button of the mouse in monitoring screen mode. Following screen Menu will be popped up.



- The system supports 2 different ways of Search.
 - Date/Time Search:** Search by putting in Date and Time.
 - Calendar Search:** Search by using Calendar dates.

5.2.2 Date/Time Search

- Click (**↔**) Date/Time Search in the pop-up screen to display following screen Menu.

SEARCH		Date/Time
Enter Date / Time		
Date	09 / 08 / 2006	
Time	05 : 27 : 20	
Search		Cancel

- How to set Date and Time will be described below.
 - Click (**↔**) the position in the Date and Time where new set is required. The selected will be highlighted by square.
 - Change the figures by clicking (**↔**) **▲**, **▼** buttons on the right.
- Click (**↔**) Search after new set is completed. Playback will be started.
- Search Mode will be continued during the search time selected.

5.2.3 Calendar Search

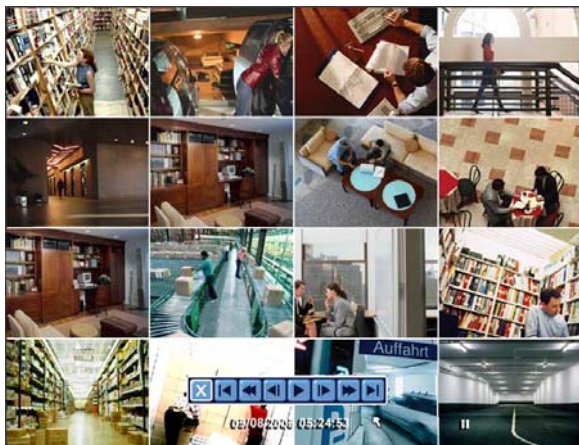
- Click (**↔**) Calendar Search in the pop-up screen to display following screen Menu.

SEARCH							Calendar
2006 / 9							
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
					1	2	
3	4	5	6	7	8	9	
10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
24	25	26	27	28	29	30	
0 2 4 6 8 10 12 14 16 18 20 22 24							
Search							Cancel

- The date holding recorded data will be highlighted as above.
- How to set Date and Time will be described below.
 - Select Year and Month by using the arrows on the top of the calendar.
 - ▶▶**: Search 'Year' by forward direction
 - ◀◀**: Search 'Year' by backward direction
 - ▶**: Search 'Month' by forward direction
 - ◀**: Search 'Month' by backward direction
 - Click (**↔**) the date for playback. The date selected will be changed to a black highlight.
 - Click (**↔**) **▲** mark in the Time Bar. The date selected will be changed to an orange highlight and **▲** mark will be changed to **▲** mark.
 - Move **▲** mark by using **◀**, **▶** keys to the time area where playback is started.
- Click (**↔**) Search after new set is completed. Playback will be started.
- Search Mode will be continued during the search time selected.

5.3 PLAYBACK

- First Playback screen is the maximum split screen of the DVR. Press **DISPLAY** key or camera number key (1 ~ 16) to change screen mode.



- Move cursor to the bottom of the screen near to time display. A Control keypad will be popped up.
- Every press of **PLAY/PAUSE** key alternately changes to 'x1 playback' or 'Pause'. The marks on the screen will be changed to ► or || respectively.
- The keys applied for playback control are described below. The symbols in the keypad represent the functions described below.

REW	⏮	•Fast Rewind playback (Every press alternately changes to x16 or x32)
BACKWARD	⏪	•Playback a still frame to backward direction
PLAY/PAUSE	▶ /	•x1 playback / Pause
AUDIO	🔊	•Audio play on/off •Audio channel selection: Press AUDIO key and select required channel key
FF	⏭	•Fast Forward playback (Every press alternately changes to x16 or x32)
FORWARD	⏩	•Playback a still frame to forward direction

(ATTENTION)

If you want to change the playback modes by x1 playback, REW, FF, BACKWARD or FORWARD, you are firmly requested to first pause the system by pressing **PLAY/PAUSE** key.

- Press **SEARCH** key to stop Playback.

(ATTENTION)

SEARCH key doesn't work while keypad left to be popped up. Press  button to remove the keypad.

5.4 ONE-TOUCH PLAYBACK

- You can directly go to the Playback screen by just pressing **PLAY/PAUSE** key in the monitoring screen mode. This playback screen only playback the latest 1-minute recorded data. Press **SEARCH** key to stop playback.

- How to activate One-touch Playback by using mouse is described below.

- Click Right button of the mouse to pop up 'Function keys' on the screen.
- Click Search to start one-touch playback.
- To stop one-touch playback, click Right button of the mouse again to pop up a Search Menu. Click 'Exit Search' in the Search Menu. One-touch playback will be stopped.

5.5 BACK-UP(ARCHIVE)

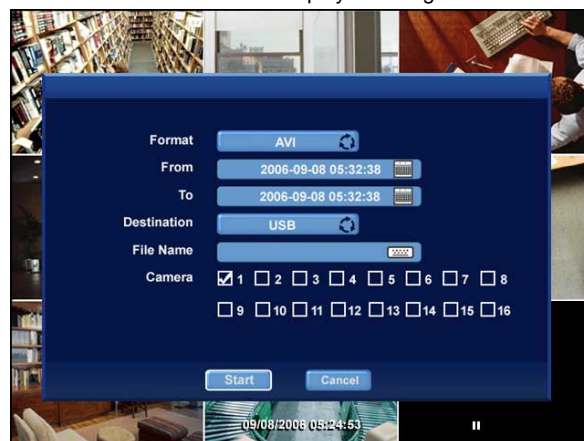
- Back-up function is to copy the recorded images (still images and motion images) and save them into the storage devices (USB memory stick, CD-RW and DVD-RW).
- Back-up can be functioning only in Playback mode.
- How to back-up in Playback mode is described below.

- Press **PLAY/PAUSE** keys to stop Playback. You can find || mark on the screen.

(ATTENTION)

If you want to back-up the images being play-back, you are firmly requested to first pause the system by pressing **PLAY/PAUSE** key.

- Press **ARCHIVE** key. When you use a mouse, press Right button and click Archive to display following screen menu.



- Click (↔) Format and select 'AVI' or 'JPEG'. It's suggested to select AVI file format for archiving motion images and select JPEG file format for archiving still images.
- Click (↔) the key mark on the right-end of 'From' and set back-up start time.
- Click T(↔) the key mark on the right-end of 'To' and set back-up end time.
- Click (↔) Destination to select a back-up device. You are allowed to select one out of USB and CD/DVD-RW.
- Click (↔) the key mark on the right-end of 'File Name' to input the file name. You don't have to apply file extension (avi, jpg). If there's no file name encoded, save may not be processed.
- Select a Camera number by checking ☒. You are allowed to select only one camera. In case you palyback a Full screen, you are allowed to select only the camera that runs with a full screen
- Click (↔) Start button. A Progress Bar will be popped up and save will be started.
- Once save has been completed, a message confirming 'Archive Success' appears. Click (↔) 'OK' button. If save has not been successful, a message confirming 'Archive Fail' and you are required to try again from the beginning.

(Note)

Please keep the size of back-up data smaller than 2GB. The data larger than 2GB cannot be archived

(Note)

New setup try for DVR or CMS will be stopped during back-up processed.

(ATTENTION)

Forced power off or removal of back-up devices during back-up processed can cause fatal damages to DVR or storage devices. You are required to reboot the system if the devices are damaged. If the reboot doesn't make the system regularly operate, HDD format or system recovery should be processed